

Technical Data Sheet

Yttrium(III)oxide powder

Revision date: 2025-11-07

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING

Product name	Yttrium(III)oxide powder
Product code	NO-0030-UP
Supplier	IoLiTec Ionic Liquids Technologies GmbH Im Zukunftspark 9 D-74076 Heilbronn Germany
Telephone	+49 (0)7131 - 898390
Fax	+49 (0)7131 - 89839109
Emergency telephone	+49 (0)151-41255671

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	Copper(II)oxide
CAS No.	1314-36-9
Empirical Formula	Y_2O_3
Molecular weight	225.81 g/mol
Purity	99.95 % (REO)
Average Particle Size	30 - 50 nm (BET & TEM),
True Density	5.03 g/cm ³
Melting point	2435°C
SSA	30 - 50 m ² /g

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3 TYPICAL IMPURITIES: ICP-OES

Components		Contents (ppm)
REO	La ₂ O ₃	< 1
	CeO ₂	< 1
	Pr ₆ O ₁₁	< 1
	Nd ₂ O ₃	< 1
	Sm ₂ O ₃	< 1
	Eu ₂ O ₃	< 1
	Gd ₂ O ₃	< 5
	Tb ₄ O ₇	< 5
	Dy ₂ O ₃	< 5
	Ho ₂ O ₃	< 5
	Er ₂ O ₃	< 1
	Tm ₂ O ₃	< 1
	Lu ₂ O ₃	< 1
	Yb ₂ O ₃	< 1
Non-REO	CaO	< 200
	CuO	< 1
	Fe ₂ O ₃	< 50
	NiO	< 1
	PbO	< 1
	SiO ₂	< 50
	MgO	< 50
	ZnO	< 1
	MnO ₂	< 1
	TiO ₂	< 1

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5 OTHER INFORMATION

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